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- 19. (AMENDED) The geometry unit of Claim 16, wherein [said primitive is a polygon] said outcode value indicates whether said vertex is visible with respect to each plane of said view volume.
- 29. (AMENDED) The pipelined graphics system of Claim [28,] 36, wherein only vertices which are visible in all said planes are rasterized.
- 30. (AMENDED) The pipelined graphics system of Claim [28,] 36, wherein said clipping is implemented prior to any lighting, fog, or texture calculations.
- 31. (AMENDED) The pipelined graphics system of Claim [28,] 36, wherein said primitive is a triangle.
- 32. (AMENDED) The pipelined graphics system of Claim [28,] 36, wherein said view volume is a frustrum.
- 33. (AMENDED) The pipelined graphics system of Claim [28,] 36, wherein there are six or more planes in said view volume.
- 34. (AMENDED) The pipelined graphics system of Claim [28,] 36, wherein said clipping uses the Sutherland and Hodgman polygon clipping algorithm.
- 35. (AMENDED) The pipelined graphics system of Claim [28,] 36, wherein vertex visibility in each of said planes is indicated by a bit flag.

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		36. (AMENDED) [The pipelined graphics system of Claim 28,] A pipelined
		graphics system, comprising:
		a transformation unit connected to:
		transform a primitive into a clipping space, and
	5	assign a fixed barycentric coordinate to each vertex of said
		<u>primitive; and</u>
		a geometry unit connected to:
		perform clip testing on said primitives,
//		clip said primitives, if necessary, according to said fixed
<u>/</u>	10	barycentric coordinates, and
`		set an outcode value for each said vertex indicating whether
		it is visible with respect to each plane of a view
		<u>Mume</u> ,
		wherein two circular buffers are used to store said input and
		output polygons.
		37. (AMENDED) The pipelined graphics system of Claim [28,] 36,
		wherein said circular buffer has a maximum storage of
		sixteen vertices.
		39. (AMENDED) The computer system of Claim [38,] 43, wherein said
		clipping is implemented prior to any lighting, fog, or texture
		calculations.
		<i>N)</i>
_		40. (AMENDED) The computer system of Claim [38,] 43, wherein said
		primitive is a triangle.
		· //
		41. (AMENDED) The computer system of Claim [38,] 43, wherein said
		clipping uses the Sutherland and Hodgman polygon clipping
		algorithm.

	42. (AMENDED) The computer system of Claim [38,] 43, wherein
	vertex visibility in each of said planes is indicated by a bi
	flag.
	43. (AMENDED) [The computer system of Claim 38,] A computer system
	comprising:
	display hardware;
	a processor connected to provide graphics data
5	a geometry and lighting accelerator connected to receive said
	graphics data, comprising
	a transformation unit connected to:
	transform a primitive into a clipping space, and
	assign a fixed barycentric coordinate to each vertex
10	of said primitive; and
	a geometry unit connected to:
	perform clip testing on said primitives,
	clip said promitives, if necessary, according to said
	/ fixed barycentric coordinates.
15	set an outcode value for each said vertex indicating
	/ whether it is visible with respect to each
	plane of a view volume, and
	output/clipped graphics data to be rendered; and
	video rendering hardware connected to receive said clipped
20	graphics data, generate graphics, and connected to
	display said graphics on said display hardware;
	wherein two fircular buffers are used to store said input and
	output polygons.
	44. (AMENDED) The method of Claim [38,] 43, wherein said video
	rendering hardware is a GLINT 500TX.

45. (AMENDED) The method of Claim [38,] 43, wherein said video rendering hardware is a GLINT PERMEDIA.

46. (AMENDED) The method of Claim [38,] 43, wherein said processor is an X86-compatible processor.

Please cancel Claims 28 and 38 without prejudice.